>AF249278 ACCESSION:AF249278 NID: gi 9651966 gb AF249278.1 AF249278

Homo sapiens voltage-gated potassium channel (KCNQ5)

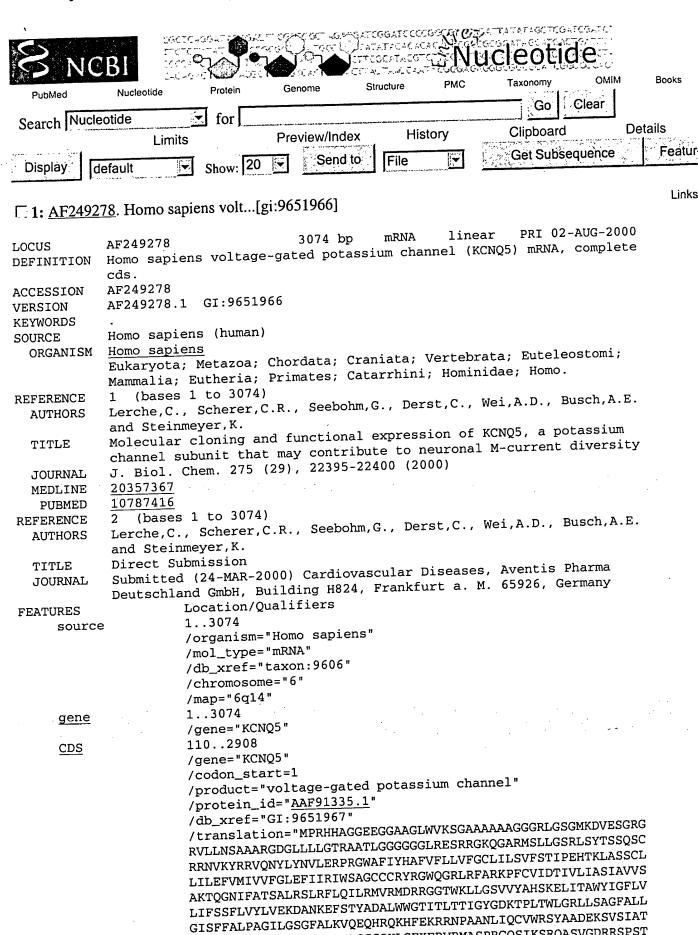
mRNA, complete cds

Length = 3074

Score = 1832 bits (4694), Expect = 0.0Identities = 920/932 (98%), Positives = 921/932 (98%), Gaps = 9/932 (0%) Frame = +2MPRHHAGGEEGGAAGLWVKSGAAAAAAGGGRLGSGMKDVESGRGRVLLNSAAARGDGLLL 60 ${\tt MPRHHAGGEEGGAAGLWVKSGAAAAAAGGGRLGSGMKDVESGRGRVLLNSAAARGDGLLL}$ Query: 1 Sbjct: 110 MPRHHAGGEEGGAAGLWVKSGAAAAAAGGGRLGSGMKDVESGRGRVLLNSAAARGDGLLL 289 LGTRAATLGGGGGGLRESRRGKQGARMSLLGKPLSYTSSQSCRRNVKYRRVQNYLYNVLE 120 LGTRAATLGGGGGGLRESRRGKQGARMSLLG LSYTSSQSCRRNVKYRRVQNYLYNVLE Ouery: 61 Sbjct: 290 LGTRAATLGGGGGGLRESRRGKQGARMSLLGSRLSYTSSQSCRRNVKYRRVQNYLYNVLE 469 Query: 121 RPRGWAFIYHAFVFLLVFGCLILSVFSTIPEHTKLASSCLLILEFVMIVVFGLEFIIRIW 180 RPRGWAFIYHAFVFLLVFGCLILSVFSTIPEHTKLASSCLLILEFVMIVVFGLEFIIRIW RPRGWAFIYHAFVFLLVFGCLILSVFSTIPEHTKLASSCLLILEFVMIVVFGLEFIIRIW 649 Sbjct: 470 Query: 181 SAGCCCRYRGWQGRLRFARKPFCVIDTIVLIASIAVVSAKTQGNIFATSALRSLRFLQIL 240 SAGCCCRYRGWQGRLRFARKPFCVIDTIVLIASIAVVSAKTQGNIFATSALRSLRFLQIL SAGCCCRYRGWQGRLRFARKPFCVIDTIVLIASIAVVSAKTQGNIFATSALRSLRFLQIL 829 Sbjct: 650 RMVRMDRRGGTWKLLGSVVYAHSKELITAWYIGFLVLIFSSFLVYLVEKDANKEFSTYAD 300 ${\tt RMVRMDRRGGTWKLLGSVVYAHSKELITAWYIGFLVLIFSSFLVYLVEKDANKEFSTYAD}$ Query: 241 Sbjct: 830 RMVRMDRRGGTWKLLGSVVYAHSKELITAWYIGFLVLIFSSFLVYLVEKDANKEFSTYAD 1009 ALWWGTITLTTIGYGDKTPLTWLGRLLSAGFALLGISFFALPAGILGSGFALKVQEQHRQ 360 ALWWGTITLTTIGYGDKTPLTWLGRLLSAGFALLGISFFALPAGILGSGFALKVQEQHRQ Query: 301 Sbjct: 1010 ALWWGTITLTTIGYGDKTPLTWLGRLLSAGFALLGISFFALPAGILGSGFALKVQEQHRQ 1189 Query: 361 KHFEKRRNPAANLIQCVWRSYAADEKSVSIATWKPHLKALHTCSPT-----NQKLS 411 KHFEKRRNPAANLIQCVWRSYAADEKSVSIATWKPHLKALHTCSPT Sbjct: 1190 KHFEKRRNPAANLIQCVWRSYAADEKSVSIATWKPHLKALHTCSPTKKEQGEASSSQKLS 1369 Query: 412 FKERVRMASPRGQSIKSRQASVGDRRSPSTDITAEGSPTKVQKSWSFNDRTRFRPSLRLK 471 ${\tt FKERVRMASPRGQSIKSRQASVGDRRSPSTDITAEGSPTKVQKSWSFNDRTRFRPSLRLK}$ Sbjct: 1370 FKERVRMASPRGQSIKSRQASVGDRRSPSTDITAEGSPTKVQKSWSFNDRTRFRPSLRLK 1549 Query: 472 SSQPKPVIDADTALGTDDVYDEKGCQCDVSVEDLTPPLKTVIRAIRIMKFHVAKRKFKET 531 ${\tt SSQPKPVIDADTALGTDDVYDEKGCQCDVSVEDLTPPLKTVIRAIRIMKFHVAKRKFKET}$ Sbjct: 1550 SSQPKPVIDADTALGTDDVYDEKGCQCDVSVEDLTPPLKTVIRAIRIMKFHVAKRKFKET 1729 Query: 532 LRPYDVKDVIEQYSAGHLDMLCRIKSLQTRVDQILGKGQITSDKKSREKITAEHETTDDL 591 $\verb|LRPYDVKDVIEQYSAGHLDMLCRIKSLQTRVDQILGKGQITSDKKSREKITAEHETTDDL|$ Sbjct: 1730 LRPYDVKDVIEQYSAGHLDMLCRIKSLQTRVDQILGKGQITSDKKSREKITAEHETTDDL 1909 Query: 592 SMLGRVVKVEKQVQSIESKLDCLLDIYQQVLRKGSASALALASFQIPPFECEQTSDYQSP 651 SMLGRVVKVEKQVQSIESKLDCLLDIYQQVLRKGSASALALASFQIPPFECEQTSDYQSP Sbjct: 1910 SMLGRVVKVEKQVQSIESKLDCLLDIYQQVLRKGSASALALASFQIPPFECEQTSDYQSP 2089 Query: 652 VDSKDLSGSAQNSGCLSRSTSANISRGLQFILTPNEFSAQTFYALSPTMHSQATQVPISQ 711 VDSKDLSGSAQNSGCLSRSTSANISRGLQFILTPNEFSAQTFYALSPTMHSQATQVPISQ Sbjct: 2090 VDSKDLSGSAQNSGCLSRSTSANISRGLQFILTPNEFSAQTFYALSPTMHSQATQVPISQ 2269

| | • | | | |
|--|--------|------|--|------|
| | Ouerv: | 712 | SDGSAVAATNTIANQINTAPKPAAPTTLQIPPPLPAIKHLPRPETLHPNPAGLQESISDV SDGSAVAATNTIANQINTAPKPAAPTTLQIPPPLPAIKHLPRPETLHPNPAGLQESISDV SDGSAVAATNTIANQINTAPKPAAPTTLQIPPPLPAIKHLPRPETLHPNPAGLQESISDV | 771 |
| | | | | |
| | | 220 | TTCLVASKENVQVAQSNLTKDRSMRKSFDMGGETLLSVCPMVPKDLGKSLSVQNLIRSTE TTCLVASKENVQVAQSNLTKDRSMRKSFDMGGETLLSVCPMVPKDLGKSLSVQNLIRSTE TTCLVASKENVQVAQSNLTKDRSMRKSFDMGGETLLSVCPMVPKDLGKSLSVQNLIRSTE | |
| | Sbjct: | 2450 | | 2629 |
| | Query: | 832 | ELNIQLSGSESSGSRGSQDFYPKWRESKLFITDEEVGPEETETDTFDAAPQPAREAAFAS ELNIQLSGSESSGSRGSQDFYPKWRESKLFITDEEVGPEETETDTFDAAPQPAREAAFAS ELNIQLSGSESSGSRGSQDFYPKWRESKLFITDEEVGPEETETDTFDAAPQPAREAAFAS | 891 |
| | Sbjct: | 2630 | | 2809 |
| | Query: | 892 | DSLRTGRSRSSQSICKAGESTDALSLPHVKLK 923 DSLRTGRSRSSQSICKAGESTDALSLPHVKLK DSLRTGRSRSSQSICKAGESTDALSLPHVKLK 2905 | |
| | Sbjct: | 2810 | | |

Links



WKPHLKALHTCSPTKKEQGEASSSQKLSFKERVRMASPRGQSIKSRQASVGDRRSPST

DITAEGSPTKVQKSWSFNDRTRFRPSLRLKSSQPKPVIDADTALGTDDVYDEKGCQCD VSVEDLTPPLKTVIRAIRIMKFHVAKRKFKETLRPYDVKDVIEQYSAGHLDMLCRIKS LQTRVDQILGKGQITSDKKSREKITAEHETTDDLSMLGRVVKVEKQVQSIESKLDCLL DIYQQVLRKGSASALALASFQIPPFECEQTSDYQSPVDSKDLSGSAQNSGCLSRSTSA NISRGLQFILTPNEFSAQTFYALSPTMHSQATQVPISQSDGSAVAATNTIANQINTAP KPAAPTTLQIPPPLPAIKHLPRPETLHPNPAGLQESISDVTTCLVASKENVQVAQSNL TKDRSMRKSFDMGGETLLSVCPMVPKDLGKSLSVQNLIRSTEELNIQLSGSESSGSRG SQDFYPKWRESKLFITDEEVGPEETETDTFDAAPQPAREAAFASDSLRTGRSRSSQSICKAGESTDALSLPHVKLK"

BASE COUNT ORIGIN 788 a 784 c 789 g 713 t

1 gggcgccccg tcggccgccg gcttcctcct tgaaacccgc cggcgcacat gaggccgctg 61 cccccgccgc aggcgctggc ggcccctcg cggtgcccgt ggtgatgcca tgccccgcca 121 ccacgcggga ggagaggagg gcggcgccgc cgggctctgg gtgaagagcg gcgcagcggc 181 ggcggcggcg ggcggggggc gcttgggcag cggcatgaag gatgtggagt cgggccgggg 241 cagggtgctg ctgaactcgg cagccgccag gggcgacggc ctgctactgc tgggcacccg 301 cgcggccacg cttggtggcg gcggcggtgg cctgagggag agccgccggg gcaagcaggg 361 ggcccggatg agcctgctgg gaagccgcct ctcttacacg agtagccaga gctgccggcg 421 caacgtcaag taccggcggg tgcagaacta cctgtacaac gtgctggaga gaccccgcgg 481 ctgggcgttc atctaccacg ctttcgtttt cctccttgtc tttggttgct tgattttgtc 541 agtgttttct accatccctg agcacacaaa attggcctca agttgcctct tgatcctgga 601 gttcgtgatg attgtcgtct ttggtttgga gttcatcatt cgaatctggt ctgcgggttg 661 ctgttgtcga tatagaggat ggcaaggaag actgaggttt gctcgaaagc ccttctgtgt 721 tatagatacc attgttctta tcgcttcaat agcagttgtt tctgcaaaaa ctcagggtaa 781 tatttttgcc acgtctgcac tcagaagtct ccgtttccta cagatcctcc gcatggtgcg 841 catggaccga aggggaggca cttggaaatt actgggttca gtggtttatg ctcacagcaa 901 ggaattaatc acagcttggt acataggatt tttggttctt atttttcgt ctttccttgt 961 ctatctggtg gaaaaggatg ccaataaaga gttttctaca tatgcagatg ctctctggtg 1021 gggcacaatt acattgacaa ctattggcta tggagacaaa actcccctaa cttggctggg 1081 aagattgctt tctgcaggct ttgcactcct tggcatttct ttctttgcac ttcctgccgg 1141 cattcttggc tcaggttttg cattaaaagt acaagaacaa caccgccaga aacactttga 1201 gaaaagaagg aacccagctg ccaacctcat tcagtgtgtt tggcgtagtt acgcagctga 1261 tgagaaatct gtttccattg caacctggaa gccacacttg aaggccttgc acacctgcag 1321 ccctaccaag aaagaacaag gggaagcatc aagcagtcag aagctaagtt ttaaggagcg 1381 agtgcgcatg gctagcccca ggggccagag tattaagagc cgacaagcct cagtaggtga 1441 caggaggtcc ccaagcaccg acatcacagc cgagggcagt cccaccaaag tgcagaagag 1501 ctggagcttc aacgaccgaa cccgcttccg gccctcgctg cgcctcaaaa gttctcagcc 1561 aaaaccagtg atagatgctg acacagccct tggcactgat gatgtatatg atgaaaaagg 1621 atgccagtgt gatgtatcag tggaagacct caccccacca cttaaaactg tcattcgagc 1681 tatcagaatt atgaaatttc atgttgcaaa acggaagttt aaggaaacat tacgtccata 1741 tgatgtaaaa gatgtcattg aacaatattc tgctggtcat ctggacatgt tgtgtagaat 1801 taaaagcctt caaacacgtg ttgatcaaat tcttggaaaa gggcaaatca catcagataa 1861 gaagagccga gagaaaataa cagcagaaca tgagaccaca gacgatctca gtatgctcgg 1921 tcgggtggtc aaggttgaaa aacaggtaca gtccatagaa tccaagctgg actgcctact 1981 agacatctat caacaggtcc ttcggaaagg ctctgcctca gccctcgctt tggcttcatt 2041 ccagatccca ccttttgaat gtgaacagac atctgactat caaagccctg tggatagcaa 2101 agatctttcg ggttccgcac aaaacagtgg ctgcttatcc agatcaacta gtgccaacat 2161 ctcgagaggc ctgcagttca ttctgacgcc aaatgagttc agtgcccaga ctttctacgc 2221 gcttagccct actatgcaca gtcaagcaac acaggtgcca attagtcaaa gcgatggctc 2281 agcagtggca gccaccaaca ccattgcaaa ccaaataaat acggcaccca agccagcagc 2341 cccaacaact ttacagatcc cacctcctct cccagccatc aagcatctgc ccaggccaga 2401 aactctgcac cctaaccctg caggcttaca ggaaagcatt tctgacgtca ccacctgcct 2461 tgttgcctcc aaggaaaatg ttcaggttgc acagtcaaat ctcaccaagg accgttctat 2521 gaggaaaagc tttgacatgg gaggagaaac tctgttgtct gtctgtccca tggtgccgaa 2581 ggacttgggc aaatctttgt ctgtgcaaaa cctgatcagg tcgaccgagg aactgaatat 2641 acaactttca gggagtgagt caagtggctc cagaggcagc caagattttt accccaaatg

2701 gagggaatcc aaattgttta taactgatga agaggtgggt cccgaagaga cagagacaga 2761 cacttttgat gccgcaccgc agcctgccag ggaagctgcc tttgcatcag actctctaag 2821 gactggaagg tcacgatcat ctcagagcat ttgtaaggca ggagaaagta cagatgccct 2881 cagcttgcct catgtcaaac tgaaataagt tcttcatttt ctttccaggc atagcagttc //

2941 tttagccata catatcattg catgaactat ttcgaaagcc cttctaaaaa gttgaaattg 3001 caagaatcgg gaagaacatg aaaggcagtt tataagcccg ttacctttta attgcatgaa 3061 aatgcatgtt tagg

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Oct 1 2003 15:02:47